

1299400

Reviewed on: 27.05.2021

01 Identification of substance

- **Product details:**
- **Trade name:**
MULTI PUR
- **Article number:**
902010
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**
Cleaning material/ Detergent
- **Supplier details:**
- **Manufacturer/Supplier:**
imt Zinssmeister OHG
Frauenwaldstraße 11
82383 Hohenpeißenberg
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02 Hazard identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05

Skin Corr. 1A - H314 Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C corrosive

R 22

Harmful if swallowed.

R 35

Causes severe burns.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

- **Hazard pictograms**



GHS05

GHS07

- **Signal word**

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Danger

- **Hazard-determining components of labelling:**
Potassium Hydroxide
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
- **Precautionary statements**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P405 Store locked up.
P501a Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
- **Results of PBT and vPvB assessment**
According to Annex XIII, XIV of Regulation (EC) No.1907/2006 concerning REACH Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent/very bioaccumulative) criteria. Self classification
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.

03 Composition/Data on components

- **Chemical characterization**
 - **Description:**
Solution of substances listed below with non declarable additions.
 - **Dangerous components:**
- | CAS NO. | Description Index R-phrases | % |
|-----------|---|-------|
| 1310-58-3 | Potassium Hydroxide
EINECS: 215-181-3
Record number 01-2119487136-33-0000
 C  Xn
22-35
 Skin Corr. 1A - H314;  Acute Tox.
4 - H302 | >30,0 |
- **Additional information**
For the wording of the listed risk phrases refer to section 16.

04 First aid measures

- **Description of first aid measures**
- **General information**
Instantly remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Personal protection for the First Aider.
- **After inhalation**
Supply fresh air or oxygen; call for doctor.
In the case of breathing difficulties have the casualty inhale oxygen.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.

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Use eye protection.

Seek medical treatment.

- **After swallowing**

Rinse out mouth.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Do not induce vomiting; instantly call for medical help.

During spontaneous vomiting hold the head of the casualty onto low with the body in a prone position in order to avoid the penetration of vomit into the air tube.

- **Information for doctor**

Typical caustic burns. Symptoms of acute poisoning: The local damage proceeds very quickly, initially without any or little (inadequate!) sensation of pain. Eyes: in particular damage to the conjunctives, cornea, sclera (edema, ulceration/perforation, opacity of the cornea), more seldom even to the retina and choroidea; there is a danger of blindness! Skin: erythema -> erosion with swelling of the tissue showing soft, gelatinous surface (colliquative necrosis), -> deficient skin function (rule of nines!) Inhalation: tussive irritation, following massive inhalation possible dyspnoea, stridor, danger of laryngospasm/glottic edema, pulmonary edema, bronchopneumonia Ingestion: painful reddening/glassy swelling of the mucous membranes of the mouth/tongue (however, signs of corrosion can also be absent!); pain behind the sternum and in the epigastrium, dysphagia, under certain circumstances emesis (danger of aspiration); in serious cases rapid entry of collapse/shock (sometimes fatal);

Information see: GESTIS-database on hazardous substances www.hvbg.de/bgja/gestis-database**05 Fire fighting measures**

- **Extinguishing media**

- **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents**

Not known.

- **Special hazards caused by the material, its products of combustion or flue gases:**

No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:**

Keep breathing equipment ready.

Wear protective equipment. Keep unprotected persons away.

- **Additional information**

None

06 Accidental release measures

- **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of the material collected according to regulations.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Additional information:**

Other regulations, limitations and prohibitive regulations see chapter 15

07 Handling and storage

- **Handling**

- **Information for safe handling:**

Do not mix with acid products

- **Information about protection against explosions and fires:**

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- No special measures required.
- **Technically and precautionary measures**
Store in the original bundle.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storing packagings with dangerous goods
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Protect from heat and direct sunlight.
- **Storage class**
Storage classes according concept of VCI -combined storage of chemicals :
LGK 8BL
- **Class according to regulation on inflammable liquids:**
-
- **Specific end use(s)**
No further relevant information available.

08 Exposure controls and personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:**
CAS No. **Designation of material**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Wash hands during breaks and at the end of the work.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Other regulations, limitations and prohibitive regulations see chapter 15
- **Breathing equipment: Use breathing protection when aerosol or mist is formed (FFP2SL) Other regulations, limitations and prohibitive regulations see chapter 15**
- **Protection of hands: Alkaline resistant protection gloves - EN 374 (Butyl india rubber, Viton) Other regulations, limitations and prohibitive regulations see chapter 15 Preventive skin protection by use of skin -protecting agents is recommended.**
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection: Tightly sealed goggles (EN 166) Other regulations, limitations and prohibitive regulations see chapter 15**
- **Body protection: Protective work clothing EN 340 - Protective clothing, general requirements Chemical protective clothing - EN 463 following Other regulations, limitations and prohibitive regulations see chapter 15**

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09 Physical and chemical properties

Information on basic physical and chemical properties	
Appearance	
Appearance:	
Form:	Fluid
Colour:	Colourless
Smell:	Odourless
Odour threshold:	Not determined.
CHANGE IN CONDITION	
	range/value unit method
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 100 °C
Flash point:	Not applicable
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Self-inflammability	Not determined.
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Steam pressure:	Not determined.
Density	1,2290 - 1,2890 g/cm ³ 20°C
Solubility in / Miscibility with	
Water:	Not determined.
ph-value:	at 20 °C 12,7+-0,3 (10,000 g/l Wasser g/l water)
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Solvent content:	
Organic solvents:	0,00 %
Additional information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
No dangerous reactions known.
- **Conditions to avoid**
No further relevant information available.
- **Materials to be avoided:**
No further relevant information available.

- **Dangerous reactions**
Reacts with base metals forming hydrogen.
- **Dangerous products of composition:**
No dangerous decomposition products known

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PRODUCT : MULTI PUR*(continued of page 5)***11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
1310-58-3 Potassium Hydroxide
Oral, LD50: 365 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:**
Strong caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
- **Sensitization:**
No sensitizing effect known.
- **Other information (about experimental toxicology):**
Note: The indicated toxicity values refer not on the preparation, but only on the individual ingredients in their commercial concentrations.
- **Additional toxicological information:**
Harmful
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- **Toxicity**
- **Acquatic toxicity:**
No further relevant information available.
- **Information about elimination (persistence and degradability):**
No further relevant information available.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
If appropriate diluted product reaches the sewage processing plant, there will be no disturbance of the biodegradable activities.
- **Additional ecological information:**
- **CSB-value:**
Not determined.
- **BSB5-value:**
Not determined
- **AOX-indication:**
Product contains no organic bounded halogen
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Before the waste is drained usually neutralization is necessary.
If product reaches untreated water systems, hazardous effects on fish and other water organism are possible.
- **Results of PBT and vPvB assessment**
- **PBT:**
Not applicable.
- **vPvB:**
Not applicable.
- **Other adverse effects**
No further relevant information available.

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PRODUCT : MULTI PUR*(continued of page 6)***13 Disposal considerations**

- **Product:**
- **Recommendation**
The allocation of the waste disposal key number is to be executed by the user according to the European waste disposal catalog (EAK) industry and product specific (origin-referred).
The waste keys are only referring to concentrated products.
- **European waste catalogue**
06
WASTES FROM INORGANIC CHEMICAL PROCESSES
06 02
wastes from the MFSU of bases
06 02 99
wastes not otherwise specified
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
- **Recommended cleaning agent:**
Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
ADR/RID-GGVS/E Class: 8 (C5) Corrosive substances.
Kemler Number: 80
UN-Number: 1814
Packaging group: II
Hazard label:



- Designation of goods:** 1814 POTASSIUM HYDROXIDE SOLUTION
- Excepted quantities (EQ):** E2
- Limited quantities (LQ):** LQ22
- Transport category:** 2
- Tunnel restriction code:** E

- **Maritime transport IMDG/GGVSea:**
IMDG/GGVSea Class: 8
UN Number: 1814
Label:



- Packaging group:** II
- EMS Number:** F-A,S-B
- Marine pollutant:** No
- Segregation groups:** Alkalis
- Correct technical name:** POTASSIUM HYDROXIDE SOLUTION

- **Air transport ICAO-TI and IATA-DGR:**
ICAO/IATA Class: 8
UN/ID Number: 1814

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Label**Packaging group:**

II

Correct technical name:

POTASSIUM HYDROXIDE SOLUTION

- **UN "Model Regulation":**
UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II
- **Environmental hazards:**
Marine Pollutant (-)
- **Special precautions for user**
Warning: Corrosive substances.
- **Transport/Additional information:**
none
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
Germany: Technical rules for dangerous materials (TRGS) in particular consider:
TRGS 500 Protection measures : minimum standards
TRGS 531 endangerment of the skin by work in the damp environment (damp work)
TRGS 201 Classification and marking from wastes to the removal while handling
Germany: Regard the principles of the professional organizations for preventive medical examinations (BGV A 4), in particular:
G 26 Respirators
G 24 Skin diseases (with exception of skin cancer)
Germany: Regard the principles of the professional organizations rules (BGR) in particular consider:
BGR 197: Use of skin protection
- **Classification according to VbF:**
-
- **Classification after plant security regulation (BetrSichV):**
-
- **Technical instructions (air):**
No further details
- **Water hazard class:**
In accordance with VwVwS appendix 4
Water hazard class 1 (€) : slightly hazardous for water.Self-assessment
- **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
R 22 Harmful if swallowed.
R 35 Causes severe burns.
- **Training hints**
Consider annual instruction and training of the coworkers
Contents and time of the instruction are to be held in a written form and must be confirmed by the instructing people by signature. Consider storage time of the proof.
- **Recommended restriction of use**
No public product - only for commercial applications.

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- **Department issuing data specification sheet:**
Laboratory department.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
- *** Data compared to the previous version altered.**
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